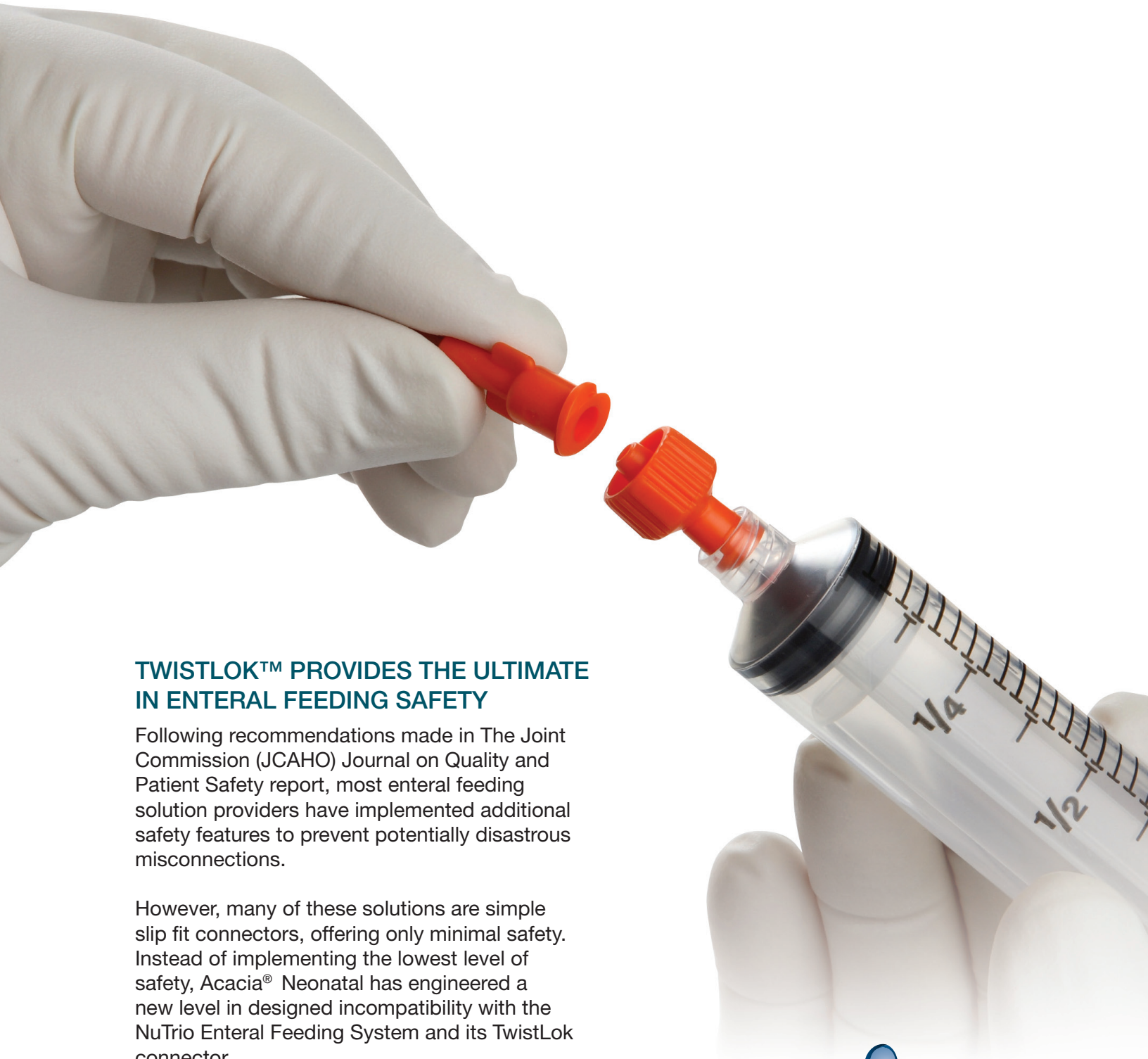


ELIMINATE  
MISCONNECTIONS

# NUTRIO ENTERAL FEEDING SYSTEM™



## TWISTLOK™ PROVIDES THE ULTIMATE IN ENTERAL FEEDING SAFETY

Following recommendations made in The Joint Commission (JCAHO) Journal on Quality and Patient Safety report, most enteral feeding solution providers have implemented additional safety features to prevent potentially disastrous misconnections.

However, many of these solutions are simple slip fit connectors, offering only minimal safety. Instead of implementing the lowest level of safety, Acacia® Neonatal has engineered a new level in designed incompatibility with the NuTrio Enteral Feeding System and its TwistLok connector.

 **Acacia**<sup>®</sup>  
Neonatal

# NUTRIO

## ENTERAL FEEDING SYSTEM

### PRODUCT FEATURES & BENEFITS:

#### TwistLok: A New Level in Designed Incompatibility

- The NuTrio Enteral Feeding System provides secure locking connections to eliminate misconnections and disconnections.
- Introduces an additional safety feature requiring the user to consciously twist the hubs together in order for a connection to be made.
- Unlike slip fit connections that accidentally come apart and waste precious breastmilk, the TwistLok hubs stay connected even when wet or under tension.
- TwistLok threads are designed to be exposed for easy cleaning without changing standard hospital procedure.
- Flexible, open system allows connectivity with other oral systems while remaining incompatible with I.V. Luers.
- Follows all the safety standards as outlined by the JCAHO Sentinel Alert on enteral feeding.
- Non-DEHP, Latex Free.



TwistLok Syringes are available in 3ml, 5ml, 10ml, 20ml, 30ml and 60ml sizes.



G-Tube Adapter for gastric feeding.



Enteral Straw for feeding preparation.

# SYRINGES



**Safety** – The NuTrio Enteral Safety System is color coded orange for easy identification.



**Fit** – Unique TwistLok design will NOT stretch out slip fit feeding tubes while remaining incompatible with I.V. luers.



**Transport** – The TwistLok cap offers the most secure fit for transportation between feeding preparation and bedside.

# EXTENSION SETS



**Medication Port** – Optional Y-port for easy medication delivery.



**TwistLok Connection** – Extension sets feature the same secure TwistLok connections as the system's feeding tubes and syringes.



**Flexibility** – The TwistLok connection is compatible with most enteral feeding systems, avoiding costly supply chain interruptions.



# FEEDING TUBES



**Easy To Clean** – The smooth exposed threads of the TwistLok are easy to clean using the hospital's existing protocol.



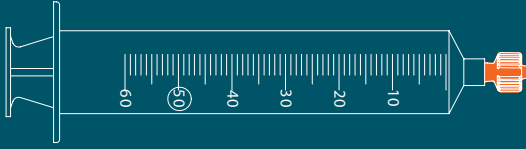
**Printed Hub** – Feeding tubes feature clearly marked french sizes right on hub.



**Gentle** – Super soft silicone feeding tubes with open tips and side holes features smooth finished edges.



CAT. NO. DESCRIPTION / LENGTH / PRIMING VOLUME



**NuTrio TwistLok Syringes**

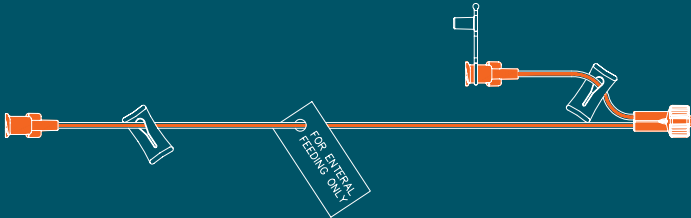
INT-01	NuTrio Intopo (Slip Fit) 1ml Syringe	
TL-INT-03	NuTrio TwistLok 3ml Syringe	100 BOX
TL-INT-05	NuTrio TwistLok 5ml Syringe	
TL-INT-10	NuTrio TwistLok 10ml Syringe	
TL-INT-20	NuTrio TwistLok 20ml Syringe	
TL-INT-30	NuTrio TwistLok 30ml Syringe	50 BOX
TL-INT-60	NuTrio TwistLok 60ml Syringe	



**NuTrio TwistLok Extension Sets**

Orange-Striped Minibore Tubing, TwistLok Male Adapter, Non-Removable Slide Clamp (White), TwistLok Female Adapter

TL-060-18	60"	1.3ml	100 BOX
TL-060-182	60"	2.0ml	



**NuTrio TwistLok Extension Sets with Medication Port**

Medication Port, Orange-Striped Low-Volume Minibore Tubing, TwistLok Male Adapter, Two Non-Removable Slide Clamps (White), Two TwistLok Female Adapters, Non-Vented Plug

TL-060-19	60"	1.7ml	100 BOX
TL-060-192	60"	2.0ml	



**TwistLok Enteral Straw (For Feeding Preparation)**

Orange-Striped Standard Bore Tubing, TwistLok Female Adapter

TL-001	5"	0.40ml	100 BOX
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CAT. NO. DESCRIPTION / LENGTH / PRIMING VOLUME



**NuTrio TwistLok PVC Feeding Tubes (For Use Up to 3 Days)**

ENPV-16-50	5 French	16"	0.50ml
ENPV-16-65	6.5 French	16"	0.60ml
ENPV-16-80	8 French	16"	0.90ml
ENPV-36-50	5 French	36"	0.70ml
ENPV-36-65	6.5 French	36"	1.20ml
ENPV-42-80	8 French	42"	2.40ml

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BOX



**NuTrio TwistLok Polyurethane Feeding Tubes (For Use Up to 30 Days)**

ENPU-20-50	5 French	20"	0.40ml
ENPU-36-50	5 French	36"	0.80ml
ENPU-20-65	6.5 French	20"	0.80ml
ENPU-36-65	6.5 French	36"	1.20ml
ENPU-20-80	8 French	20"	1.20ml
ENPU-42-80	8 French	42"	2.40ml
ENPU-42-100	10 French	42"	4.00ml

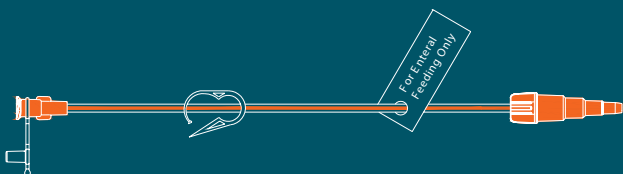
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BOX



**NuTrio TwistLok Silicone Feeding Tube (For Use Up to 30 Days)**

ENSI-40-50	5 French	40cm	0.30ml
ENSI-60-50	5 French	60cm	0.50ml
ENSI-90-50	5 French	90cm	0.60ml
ENSI-40-65	6.5 French	40cm	0.50ml
ENSI-60-65	6.5 French	60cm	0.60ml
ENSI-90-65	6.5 French	90cm	0.90ml
ENSI-40-80	8 French	40cm	0.70ml
ENSI-60-80	8 French	60cm	1.00ml
ENSI-90-80	8 French	90cm	1.50ml

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BOX



**NuTrio G-Tube Extension Set (For Gastric Feeding)**

TwistLok Oral Female Adapter, Pinch Clamp, Enteral Feeding Direction Tag, Orange Enteral Connector

TL-002	12"	1.20ml
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BOX

## Joint Commission Recommendations

Risk reduction strategies taken from the Sentinel Event Alert from the Joint Commission Website:  
[www.jointcommission.org](http://www.jointcommission.org), Issue 36 - April 3, 2006

### Tubing misconnections—A Persistent and Potentially Deadly Occurrence

According to Jim Keller, Vice President, Health Technology Evaluation and Safety for ECRI, and Stephanie Joseph, project engineer for ECRI, **the solution to reducing even eliminating misconnection errors lies in both engineering controls respecting how products and devices are designed ( incompatibility by design )**, and in re-engineering work practices.

“A well-designed device should prevent misconnections and should prompt the user to take the correct action,” explains Joseph, author of a guidance article published in the March 2006 issue of ECRI’s Health Devices journal.

As a first step in prevention, Joseph urges hospitals to avoid buying non-intravenous equipment (such as nebulizers, NIBP devices, and enteral feeding sets) that can mate with the luer connectors on patient IV lines.

The Joint Commission offers the following recommendations and strategies to health care organizations to reduce tubing misconnection errors:

- 1. Do not purchase non-intravenous equipment that is equipped with connectors that can physically mate with a female luer IV line connector.**
- 2. Conduct acceptance testing (for performance, safety and usability) and, as appropriate, risk assessment (e.g., failure mode and effect analysis) on new tubing and catheter purchases to identify the potential for misconnections and take appropriate preventive measures.**
3. Always trace a tube or catheter from the patient to the point of origin before connecting any new device or infusion.
4. Recheck connections and trace all patient tubes and catheters to their sources upon the patient’s arrival to a new setting or service as part of the hand-off process. Standardize this line reconciliation process.
5. Route tubes and catheters having different purposes in different, standardized directions (e.g., IV lines routed toward the head; enteric lines toward the feet). This is especially important in the care of neonates.
6. Inform non-clinical staff, patients and their families that they must get help from clinical staff whenever there is a real or perceived need to connect or disconnect devices or infusions.
7. For certain high-risk catheters (e.g., epidural, intrathecal, arterial), label the catheter and do not use catheters that have injection ports.
- 8. Never use a standard luer syringe for oral medications or enteric feedings.**
9. Emphasize the risk of tubing misconnections in orientation and training curricula.
- 10. Identify and manage conditions and practices that may contribute to health care worker fatigue, and take appropriate action. In addition, the Joint Commission urges product manufacturers to implement designed incompatibility, as appropriate, to prevent dangerous misconnections of tubes and catheters.**

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